

# Occupational Injuries and Illnesses and Work-related Fatalities

## Technical Note

The series covers two separate programs of the Bureau of Labor Statistics—the annual Survey of Occupational Injuries and Illnesses (SOII) and the Census of Fatal Occupational Injuries (CFOI). Data from both programs are used by employers, workers, and safety and health specialists in efforts to prevent job-related injuries and illnesses and lessen the severity of those that do occur.

The SOII, in cooperation with State agencies, gathers information from employers on the number of nonfatal work-related injuries and illnesses. Each year the survey provides estimates by industry and by State of the number and incidence of workplace injuries and illnesses, and the number of injuries and illnesses that involve lost work time. The median number of days away from work and the percent distribution of days away from work by industry are also given.

For workers with injuries and illnesses involving time away from work, the survey estimates the number and percent distribution by occupation, sex, age, race, Hispanic origin, and length of service. Numbers, percent distributions, and incidence rates also are calculated by detailed nature of injury and illness, part of body affected, source of the injury or illness, and type of event or exposure leading to the incident. Cross tabulations of the worker characteristics and injury/illness circumstances also are available. The median and percent distribution of days away from work are estimated for each worker and case characteristic.

Additional information can be obtained from the annual bulletin, *Occupational Injuries and Illnesses: Counts, Rates, and Characteristics*.

The CFOI collects a systematic, verifiable count of all

fatal work injuries as well as detailed information on how these events occurred. Because studies have shown that no single source captures all worker deaths, multiple data sources are used to identify, verify, and profile fatal work injuries. Death certificates; State and Federal workers' compensation reports; Occupational Safety and Health Administration (OSHA) fatality reports; news media, coroner, medical examiner, and autopsy reports; State motor vehicle fatality reports; and follow-up questionnaires are among the major sources used to compile the Federal Government's most complete count of job-related fatalities.

Information such as type of incident and machinery or equipment involved; nature of injury and part of body affected; occupation, age, race, and sex of the worker; and industry of the employer is collected for each fatal injury.

Summary tables are released approximately 8 months after the end of the reference year. Profiles of fatalities occurring to specific groups of workers, or for specific types of events, or for those involving certain types of equipment or machinery also are possible.

### Additional information

For more detailed information on these programs, contact the Office of Safety, Health, and Working Conditions, Bureau of Labor Statistics, 2 Massachusetts Ave. NE, Room 3180, Washington, DC 20212.

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TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998

Characteristic	All occupations	Truck drivers	Laborers, except construction	Nursing aides, orderlies and attendants	Janitors and cleaners
<b>Total number of cases .....</b>	1,730,534	131,785	97,250	84,128	44,189
Percent of total by characteristic—					
<b>Sex:</b>					
Male .....	66.3	93.4	85.5	10.0	70.2
Female .....	33.0	6.3	13.8	89.5	29.4
<b>Age:<sup>2</sup></b>					
14 - 15 .....	( <sup>3</sup> )	—	—	—	—
16 - 19 .....	3.5	.7	5.5	2.7	2.9
20 - 24 .....	11.6	5.5	16.7	13.5	7.9
25 - 34 .....	28.2	28.9	29.7	27.4	23.5
35 - 44 .....	28.2	32.9	26.1	27.6	26.7
45 - 54 .....	18.0	20.0	12.0	18.8	22.6
55 - 64 .....	7.6	9.7	4.6	7.9	11.6
65 and over .....	1.2	1.2	.6	.9	3.2
<b>Length of service with employer:</b>					
Less than 3 months .....	12.8	8.5	17.4	12.8	12.7
3 - 11 months .....	18.3	18.2	21.7	19.5	20.8
1 - 5 years .....	31.6	32.8	28.6	34.3	34.2
More than 5 years .....	25.7	27.0	19.1	21.6	24.2
Not reported .....	11.6	13.5	13.1	11.8	8.2
<b>Race or ethnic origin:</b>					
White, non-Hispanic .....	51.0	55.3	47.3	48.6	42.3
Black, non-Hispanic .....	9.1	9.3	10.3	18.5	16.9
Hispanic .....	10.4	7.8	12.9	4.8	13.6
Asian or Pacific Islander .....	1.5	1.0	1.3	1.5	1.4
American Indian or Alaskan Native .....	.4	.3	.7	.3	.3
Not reported .....	27.6	26.2	27.6	26.3	25.5
<b>Major industry division:</b>					
Agriculture, forestry, and fishing <sup>4</sup> .....	2.4	1.2	.8	—	.7
Mining <sup>5</sup> .....	.8	.6	1.6	—	—
Construction .....	10.3	3.5	—	—	1.8
Manufacturing .....	24.8	9.3	33.8	—	15.3
Transportation and public utilities <sup>5</sup> .....	11.6	51.2	6.2	—	2.8
Wholesale trade .....	7.8	17.7	27.2	—	3.4
Retail trade .....	17.0	9.9	18.5	—	13.9
Finance, insurance, and real estate .....	2.1	.3	1.3	.3	11.9
Services .....	23.2	6.4	10.6	99.6	50.2
<b>Number of days away from work:</b>					
1 .....	16.7	11.0	16.7	16.8	19.9
2 .....	13.4	9.6	13.2	15.2	11.8
3 - 5 .....	20.2	19.4	20.1	22.4	19.9
6 - 10 .....	12.9	12.9	13.7	14.0	13.2
11 - 20 .....	11.2	13.5	11.0	11.0	8.6
21 - 30 .....	6.4	7.7	6.5	5.8	6.3
31 or more .....	19.1	25.9	18.9	14.9	20.2
Median days away from work .....	5	10	6	5	5

See footnotes at end of table.

# Occupational Injuries and Illnesses and Work-related Fatalities

**TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998 — Continued**

Characteristic	Construction laborers	Assemblers	Carpenters	Cooks	Welders and cutters	Stock handlers and baggers
<b>Total number of cases .....</b>	44,057	43,262	33,002	28,549	28,363	26,274
Percent of total by characteristic—						
<b>Sex:</b>						
Male .....	96.2	59.3	98.0	55.8	93.9	64.0
Female .....	3.4	40.0	1.4	43.9	5.9	35.7
<b>Age:<sup>2</sup></b>						
14 - 15 .....	—	—	—	—	—	.1
16 - 19 .....	6.1	1.9	2.1	11.3	2.7	13.0
20 - 24 .....	16.6	11.1	10.7	15.3	13.4	18.4
25 - 34 .....	34.7	29.4	30.4	24.5	31.6	24.2
35 - 44 .....	26.1	31.2	30.2	24.2	29.9	23.0
45 - 54 .....	10.7	17.6	19.0	16.4	14.3	12.7
55 - 64 .....	3.6	6.5	5.3	6.9	5.5	4.9
65 and over .....	.3	.7	.3	.8	2.0	2.4
<b>Length of service with employer:</b>						
Less than 3 months .....	27.2	14.3	19.8	20.9	13.0	17.7
3 - 11 months .....	24.9	15.8	20.3	20.8	21.7	20.5
1 - 5 years .....	29.2	32.9	33.1	30.8	33.5	28.6
More than 5 years .....	9.8	24.7	19.4	19.5	24.8	14.5
Not reported .....	8.8	12.2	7.4	8.1	7.0	18.7
<b>Race or ethnic origin:</b>						
White, non-Hispanic .....	50.7	47.4	69.9	44.8	58.2	46.0
Black, non-Hispanic .....	8.6	7.7	2.7	17.0	6.0	6.9
Hispanic .....	20.2	9.4	8.2	11.2	10.6	8.4
Asian or Pacific Islander .....	.8	1.8	.8	3.7	1.2	.7
American Indian or Alaskan Native .....	.8	.3	.3	.2	.5	.3
Not reported .....	18.9	33.4	18.1	23.1	23.6	37.6
<b>Major industry division:</b>						
Agriculture, forestry, and fishing <sup>4</sup> .....	.1	—	—	—	.3	—
Mining <sup>5</sup> .....	—	—	.2	—	1.1	.1
Construction .....	97.6	1.0	78.9	—	5.2	—
Manufacturing .....	.2	87.2	7.9	.5	76.3	6.5
Transportation and public utilities <sup>5</sup> .....	.5	.2	.5	.3	1.7	1.0
Wholesale trade .....	—	6.1	2.7	.3	7.0	10.9
Retail trade .....	.4	1.7	3.3	72.0	2.0	80.3
Finance, insurance, and real estate .....	.3	—	1.4	.6	—	.1
Services .....	.8	3.7	5.0	26.3	6.3	.9
<b>Number of days away from work:</b>						
1 .....	14.5	18.0	15.4	15.4	28.2	18.7
2 .....	12.7	12.7	11.4	13.6	16.3	14.9
3 - 5 .....	19.2	17.3	20.2	20.8	16.5	22.7
6 - 10 .....	11.8	11.9	16.4	17.2	11.4	11.0
11 - 20 .....	14.1	13.7	11.0	12.2	8.4	11.9
21 - 30 .....	6.7	6.9	7.3	5.6	5.1	4.5
31 or more .....	21.1	19.5	18.4	15.2	14.2	16.2
Median days away from work .....	7	6	6	6	3	5

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998 — Continued

Characteristic	All occupations	Truck drivers	Laborers, except construction	Nursing aides, orderlies and attendants	Janitors and cleaners
Percent of total by characteristic—					
<b>Nature of injury, illness:</b>					
Sprains, strains, tears .....	43.9	53.8	45.2	65.5	45.3
Fractures .....	6.7	7.6	6.9	2.5	7.9
Cuts, lacerations .....	9.3	4.4	8.8	1.0	7.4
Amputations .....	.6	.2	.5	—	.2
Bruises, contusions .....	8.8	8.7	10.9	7.2	10.2
Heat burns, scalds .....	1.6	.2	1.2	.1	.8
Chemical burns .....	.7	.5	.7	.2	1.6
Carpal tunnel syndrome .....	1.5	.3	.9	.3	.6
Tendonitis .....	1.0	.4	.8	.6	.3
Multiple traumatic injuries and disorders ....	3.3	4.6	3.2	2.1	3.2
With fractures and burns .....	.6	.7	.8	.1	.3
With sprains and bruises .....	1.2	1.6	1.0	1.0	1.3
Soreness, pain, including back .....	5.9	6.3	5.8	8.9	6.5
Back pain only .....	2.4	2.7	2.7	4.1	2.9
All other natures .....	16.7	13.0	15.0	11.4	15.9
<b>Part of body affected:</b>					
Head .....	6.8	4.7	6.6	3.5	7.6
Eye(s) .....	3.4	1.6	3.3	.8	3.1
Neck, including throat .....	1.7	2.6	1.2	1.7	1.1
Trunk .....	37.3	42.6	39.5	57.3	42.7
Shoulder, including clavicle, scapula .....	5.2	6.1	5.5	7.4	5.7
Back, including spine, spinal cord .....	25.4	28.6	26.8	43.6	29.1
Upper extremities .....	23.2	13.2	21.8	12.5	15.6
Wrist(s) .....	4.9	2.2	3.9	3.9	3.2
Hand(s), except finger(s) .....	4.3	2.3	4.4	1.7	2.9
Finger(s), fingernail(s) .....	8.5	3.8	8.3	2.5	4.9
Lower extremities .....	20.5	24.2	22.9	12.9	21.6
Knee(s) .....	7.1	8.1	5.3	5.5	6.9
Foot, toe .....	4.9	4.1	7.6	1.8	6.7
Body systems .....	1.3	.4	.7	1.1	2.5
Multiple body parts .....	8.2	11.5	6.8	10.5	8.0
All other parts of body .....	1.0	.8	.6	.5	.9
<b>Source of injury, illness:</b>					
Chemicals and chemical products .....	1.7	.7	1.4	.9	3.8
Containers .....	14.6	19.8	23.2	1.3	15.6
Furniture and fixtures .....	3.6	2.3	4.4	3.1	9.5
Machinery .....	6.8	3.3	7.3	.6	6.8
Parts and materials .....	11.5	9.3	15.5	1.0	4.8
Bodily motion or position of injured,					
ill worker .....	15.2	15.1	12.1	9.6	12.4
Floors, walkways, ground surfaces .....	15.5	17.0	11.4	11.5	21.3
Tools, instruments, and equipment .....	4.7	1.1	4.5	.2	5.6
Vehicles .....	7.9	23.0	8.0	2.8	5.0
Health care patient .....	4.6	.2	—	59.2	.1
All other sources .....	14.0	8.1	12.2	9.8	15.3

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

**TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998 — Continued**

Characteristic	Construction laborers	Assemblers	Carpenters	Cooks	Welders and cutters	Stock handlers and baggers
Percent of total by characteristic—						
<b>Nature of injury, illness:</b>						
Sprains, strains, tears .....	38.2	39.3	33.9	26.4	30.6	48.8
Fractures .....	11.2	4.6	9.5	4.9	6.5	4.7
Cuts, lacerations .....	14.5	12.0	23.6	21.3	10.6	10.1
Amputations .....	.6	.9	1.0	1.0	.4	.2
Bruises, contusions .....	8.6	7.6	6.2	6.1	7.5	12.4
Heat burns, scalds .....	1.1	.5	.2	21.4	3.5	.5
Chemical burns .....	.7	.5	.2	.2	.4	.3
Carpal tunnel syndrome .....	.5	5.2	.8	1.3	1.6	.9
Tendonitis .....	.4	4.0	1.9	.2	.6	.7
Multiple traumatic injuries and disorders .....	3.3	2.1	2.2	4.2	2.2	2.0
With fractures and burns .....	1.3	.5	1.0	—	.7	—
With sprains and bruises .....	.7	.6	.6	3.0	.4	1.0
Soreness, pain, including back .....	4.5	4.4	4.1	4.5	3.8	5.6
Back pain only .....	2.3	1.4	2.0	1.5	1.4	2.0
All other natures .....	16.4	18.9	16.2	8.5	32.3	14.0
<b>Part of body affected:</b>						
Head .....	8.1	6.2	8.1	2.9	21.1	5.9
Eye(s) .....	4.6	3.5	4.7	.5	19.2	1.3
Neck, including throat .....	1.1	1.6	1.0	.3	1.3	1.6
Trunk .....	30.8	33.7	30.3	24.2	27.7	44.3
Shoulder, including clavicle, scapula .....	3.7	6.0	4.1	3.4	3.8	5.0
Back, including spine, spinal cord .....	21.2	21.0	19.9	14.2	17.4	30.8
Upper extremities .....	22.1	36.6	29.3	46.1	23.1	22.0
Wrist(s) .....	2.6	11.9	4.5	5.7	4.8	4.5
Hand(s), except finger(s) .....	4.2	5.0	5.4	10.1	4.3	4.0
Finger(s), fingernail(s) .....	9.6	12.5	13.8	21.9	9.6	8.0
Lower extremities .....	27.0	13.3	24.2	17.4	20.1	20.3
Knee(s) .....	7.3	5.0	8.7	3.9	6.0	7.1
Foot, toe .....	8.6	3.4	7.2	3.8	6.3	5.8
Body systems .....	1.1	1.3	.4	.5	.7	.5
Multiple body parts .....	9.3	6.0	5.5	7.1	3.0	5.1
All other parts of body .....	.5	1.2	1.2	1.5	3.0	.3
<b>Source of injury, illness:</b>						
Chemicals and chemical products .....	1.2	1.5	.4	.6	1.1	.7
Containers .....	5.7	9.5	3.0	15.1	4.0	38.8
Furniture and fixtures .....	.6	3.4	3.3	1.6	1.5	5.0
Machinery .....	5.2	7.8	4.5	9.6	8.2	6.0
Parts and materials .....	26.7	20.1	29.0	1.1	30.6	3.8
Bodily motion or position of injured,						
ill worker .....	10.8	27.9	11.9	10.3	12.3	11.2
Floors, walkways, ground surfaces .....	14.6	7.7	17.7	19.9	7.3	11.6
Tools, instruments, and equipment .....	11.0	7.3	10.4	16.4	13.6	5.6
Vehicles .....	6.9	3.1	2.3	1.8	1.5	8.2
Health care patient .....	—	—	—	.1	—	—
All other sources .....	17.2	11.6	17.4	23.4	19.8	9.0

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998 — Continued

Characteristic	All occupa-tions	Truck drivers	Laborers, except construction	Nursing aides, orderlies and attendants	Janitors and cleaners
Percent of total by characteristic—					
<b>Event or exposure:</b>					
Contact with objects and equipment .....	27.6	19.4	32.6	8.9	26.1
Struck by object .....	13.3	9.5	17.1	3.9	12.4
Struck against object .....	7.3	6.1	7.1	3.4	7.5
Caught in or compressed by equipment or objects .....	4.5	2.2	6.3	1.1	4.2
Fall to lower level .....	5.5	9.0	4.0	1.5	9.3
Fall to same level .....	10.7	9.0	8.4	10.5	12.0
Slip, trip, loss of balance—without fall .....	3.2	3.9	2.8	2.1	4.1
Overexertion .....	27.6	29.7	32.6	56.2	27.1
Overexertion in lifting .....	16.2	16.4	20.7	31.1	15.9
Repetitive motion .....	3.8	.9	2.6	.8	1.4
Exposure to harmful substances or environments .....	4.7	1.5	3.4	2.7	7.4
Transportation incidents .....	4.0	12.5	3.9	1.7	2.3
Fires and explosions .....	.2	.1	.3	.1	—
Assaults and violent acts .....	1.3	.4	.2	6.7	.4
By person(s) .....	1.0	.2	.1	6.5	.3
By other than person .....	.3	.2	.2	.1	.2
All other events .....	11.4	13.7	9.2	8.9	9.8

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 selected occupations: Percent distribution of days-away-from-work cases,<sup>1</sup>1998 — Continued

Characteristic	Construction laborers	Assemblers	Carpenters	Cooks	Welders and cutters	Stock handlers and baggers
Percent of total by characteristic—						
<b>Event or exposure:</b>						
Contact with objects and equipment .....	40.0	30.3	41.8	34.0	41.6	30.4
Struck by object .....	21.7	14.3	24.2	21.2	20.4	19.3
Struck against object .....	9.9	7.9	9.6	9.7	9.3	6.5
Caught in or compressed by equipment or objects .....	5.1	5.7	3.5	2.1	5.0	3.6
Fall to lower level .....	7.9	2.2	13.8	1.2	2.9	4.5
Fall to same level .....	7.1	6.0	5.3	19.0	3.7	8.7
Slip, trip, loss of balance—without fall .....	2.5	2.7	2.3	4.4	2.4	2.3
Overexertion .....	21.4	26.3	22.2	10.3	20.4	39.0
Overexertion in lifting .....	12.3	14.0	13.7	7.5	10.4	25.6
Repetitive motion .....	1.1	15.9	2.4	1.6	3.4	2.7
Exposure to harmful substances or environments .....	4.2	3.4	1.0	22.4	13.3	1.9
Transportation incidents .....	4.9	.6	1.1	—	.5	2.2
Fires and explosions .....	.2	.2	—	—	.7	—
Assaults and violent acts .....	.3	.1	.1	.3	—	.2
By person(s) .....	.1	—	—	.2	—	.2
By other than person .....	.2	—	—	—	—	—
All other events .....	10.5	12.4	9.8	6.7	11.1	8.1

<sup>1</sup> Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

<sup>2</sup> Information is not shown separately for injured workers under age 14; they accounted for fewer than 50 cases.

<sup>3</sup> Less than 0.1 percent.

<sup>4</sup> Excludes farms with fewer than 11 employees.

<sup>5</sup> Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are

provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and by the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

NOTE: Dashes indicate data that are not available. Because of rounding and nonclassifiable responses, data may not sum to the totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
Total .....	6,217	6,331	6,632	6,275	6,202	6,238	6,055	6,023
<b>Employee status</b>								
Wage and salary workers <sup>1</sup> .....	4,975	5,025	5,370	5,074	4,977	4,970	4,804	4,884
Self-employed <sup>2</sup> .....	1,242	1,303	1,262	1,201	1,225	1,268	1,251	1,139
<b>Sex</b>								
Men .....	5,774	5,842	6,104	5,736	5,688	5,761	5,569	5,582
Women .....	443	489	528	539	514	477	486	441
<b>Age</b>								
Under 15 years .....	18	19	18	16	23	15	25	15
15 to 17 years .....	50	49	49	52	47	47	40	57
18 to 24 years .....	651	610	659	616	569	616	558	572
25 to 44 years .....	3,094	3,105	3,186	2,980	2,948	2,849	2,763	2,670
45 to 64 years .....	1,934	2,015	2,176	2,083	2,097	2,177	2,115	2,140
65 to 74 years .....	340	380	380	372	341	381	369	397
75 years and over .....	127	142	145	143	163	139	172	162
<b>Race</b>								
White .....	5,173	5,175	5,460	5,120	5,111	5,108	5,041	4,990
Black .....	624	666	707	697	631	677	594	626
Other or unknown .....	420	490	465	458	460	453	420	407
<b>Hispanic origin</b>								
Hispanic <sup>3</sup> .....	533	634	624	619	638	658	707	725
<b>Event or exposure</b>								
<b>Transportation incidents</b>								
Highway .....	2,484	2,499	2,762	2,587	2,601	2,605	2,645	2,613
Collision between vehicles, mobile equipment .....	1,158	1,242	1,343	1,346	1,346	1,393	1,442	1,491
Re-entrant collision .....	578	659	654	642	667	640	707	711
Moving in same direction .....	13	13	9	9	19	8	14	29
Moving in opposite directions, oncoming .....	78	100	120	127	96	103	120	129
Moving in intersection .....	201	245	230	246	220	230	272	269
Moving and standing vehicle, mobile equipment-in roadway .....	107	123	144	99	153	142	143	160
Moving and standing vehicle, mobile equipment-side of road .....	28	31	21	31	35	24	39	39
Vehicle struck stationary object or equipment in roadway .....	18	22	19	14	16	21	14	19
Vehicle struck stationary object or equipment on side of road .....	28	30	27	19	29	22	18	33
Noncollision .....	164	159	228	256	214	260	289	301
Jack-knifed or overturned-no collision .....	301	336	373	352	352	387	375	388
Ran off highway--no collision .....	213	236	274	261	266	298	302	321
Struck by shifting load .....	64	57	58	57	43	49	32	41
Sudden start or stop, n.e.c. .....	—	—	—	—	—	—	9	—
Nonhighway (farm, industrial premises) .....	436	392	409	387	374	377	388	353
Collision between vehicles or mobile equipment .....	16	13	17	—	11	15	9	13
Vehicle, mobile equipment struck stationary object .....	19	22	27	23	37	24	30	29
Noncollision accident .....	389	342	353	355	316	328	332	306
Fall from moving vehicle, mobile equipment .....	26	17	23	36	20	17	19	22
Fell from and struck by vehicle, mobile equipment .....	94	87	71	71	59	71	70	58
Overturned .....	208	214	226	209	206	216	217	206

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Event or exposure – continued</b>								
Loss of control .....	24	—	8	6	6	—	—	—
Struck by shifting load .....	—	—	—	—	5	5	—	5
Sudden start or stop, n.e.c. ....	—	—	—	5	—	—	—	—
Aircraft .....	353	282	426	283	324	261	224	227
Worker struck by vehicle, mobile equipment .....	346	365	391	388	353	367	413	377
Worker struck by vehicle, mobile equipment in roadway .....	109	127	137	123	125	129	131	137
Worker struck by vehicle, mobile equipment on side of road .....	59	56	66	60	51	56	66	65
Worker struck by vehicle, mobile equipment in parking lot or non-road area .....	144	151	151	175	162	160	199	165
Water vehicle .....	109	119	94	87	119	109	112	102
Collision .....	—	—	—	—	—	8	9	5
Explosion, fire, n.e.c. ....	—	—	6	—	9	—	—	—
Fall from ship or boat, n.e.c. ....	40	43	39	32	43	37	49	32
Fall on ship, boat .....	—	—	7	6	7	7	6	8
Sinking, capsized water vehicle .....	54	54	32	29	40	37	37	42
Railway .....	66	86	81	82	74	93	60	56
Collision between railway vehicles .....	—	7	12	10	10	7	—	8
Collision between railway vehicle and other vehicle .....	47	64	62	60	52	72	48	42
Fell from and struck by railway vehicle .....	5	—	—	—	—	6	5	—
Derailment .....	—	6	—	—	—	—	—	—
<b>Assaults and violent acts</b> .....	1,281	1,329	1,321	1,280	1,165	1,111	962	893
Homicides .....	1,044	1,074	1,080	1,036	927	860	714	645
Hitting, kicking, beating .....	52	35	47	46	50	48	48	48
Shooting .....	852	884	934	762	761	708	574	506
Stabbing .....	90	95	60	67	80	73	61	60
Assaults and violent acts by person(s), n.e.c. ....	30	48	31	153	29	26	24	25
Self-inflicted injury .....	205	222	214	221	204	216	221	208
Assaults by animals .....	29	32	27	20	32	33	24	39
<b>Contact with objects and equipment</b> .....	1,004	1,045	1,017	916	1,010	1,035	944	1,029
Struck by object .....	557	565	590	547	582	579	520	585
Struck by falling object .....	361	346	372	341	403	384	319	358
Struck by flying object .....	77	81	68	63	58	54	59	55
Struck by discharged object or substance .....	27	32	21	23	24	22	19	19
Struck by swinging or slipping object .....	42	33	31	44	36	43	30	39
Struck by rolling, sliding objects on floor or ground level .....	38	63	60	60	55	68	75	97
Caught in or compressed by equipment or objects .....	316	311	280	255	285	320	266	302
Caught in running equipment or machinery .....	159	151	147	131	146	189	129	163
Compressed or pinched by rolling, sliding, or shifting objects .....	55	57	56	56	66	55	62	51
Caught in or crushed in collapsing materials .....	110	138	132	99	131	118	140	128
Excavation or trenching cave-in .....	42	38	49	33	55	35	46	44
Other cave-in .....	5	23	12	5	13	9	15	18
Landslide .....	5	—	—	—	—	—	—	—
Caught in or crushed in collapsing structure .....	31	27	31	32	35	38	42	28
<b>Falls</b> .....	600	618	665	651	691	716	706	717
Fall to lower level .....	507	534	580	578	610	653	625	634
Fall down stairs or steps .....	13	14	19	16	15	13	12	23
Fall from floor, dock, or ground level .....	37	38	27	33	27	40	32	43
Fall through existing floor opening .....	11	24	14	16	13	20	21	19
Fall through floor surface .....	—	—	—	—	—	—	—	7
Fall from loading dock .....	—	5	—	—	—	6	—	—
Fall from ground level to lower level .....	10	—	5	7	—	—	—	7
Fall from ladder .....	78	76	86	97	97	116	111	96
Fall from piled or stacked material .....	—	7	5	—	—	5	—	—
Fall from roof .....	108	120	129	143	149	154	157	153
Fall through existing roof opening .....	8	6	11	18	15	20	12	14
Fall through roof surface .....	12	14	18	19	21	17	20	16
Fall through skylight .....	10	19	14	18	16	17	22	18

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Event or exposure – continued</b>								
Fall from roof edge .....	44	38	41	36	46	56	47	70
Fall from scaffold, staging .....	66	71	89	82	88	87	98	92
Fall from building girders or other structural steel .....	37	40	34	34	38	48	44	49
Fall from nonmoving vehicle .....	39	33	48	34	55	53	48	47
Fall to lower level, n.e.c. ....	95	112	119	117	117	121	107	116
Jump to lower level .....	8	8	7	—	13	—	—	—
Jump from structure, or structural element .....	—	—	—	—	5	—	—	—
Fall on same level .....	62	49	63	53	52	44	51	66
Fall to floor, walkway, or other surface .....	43	35	46	33	40	33	34	51
Fall onto or against objects .....	14	9	14	13	7	9	8	9
<b>Exposure to harmful substances or environments</b> .....								
Contact with electric current .....	605	592	641	609	533	554	576	529
Contact with electric current of machine, tool, appliance, light fixture .....	334	325	348	348	281	298	334	278
Contact with wiring, transformers, or other electrical component .....	60	44	63	55	46	41	51	51
Contact with overhead power lines .....	66	100	98	94	70	71	84	75
Contact with underground, buried power lines .....	140	115	132	139	116	138	153	124
Contact with undergound, buried power lines .....	—	5	6	5	5	5	9	—
Struck by lightning .....	15	16	15	17	18	22	21	13
Contact with temperature extremes .....	33	38	50	56	33	40	48	50
Exposure to environmental heat .....	12	22	28	35	18	22	34	34
Exposure to environmental cold .....	5	—	7	8	—	—	—	—
Contact with hot objects or substances .....	16	11	15	13	13	17	11	15
Exposure to caustic, noxious, or allergenic substances .....	127	116	133	107	123	123	105	106
Inhalation of substance .....	83	68	84	62	76	59	48	55
Inhalation in enclosed, restricted, or confined space <sup>4</sup> .....	51	43	44	35	56	25	27	23
Inhalation in open or nonconfined space .....	18	15	24	21	12	19	14	23
Contact with skin or other exposed tissue .....	5	—	—	—	5	—	—	—
Injections, stings, venomous bites .....	10	10	11	9	14	23	12	15
Needle sticks .....	—	—	—	—	—	7	—	6
Bee, wasp, hornet sting .....	—	5	8	—	5	10	6	5
Ingestion of substance .....	13	13	12	18	20	26	20	20
Oxygen deficiency .....	111	112	109	97	95	90	87	93
Drowning, submersion .....	78	90	89	77	70	72	75	75
Depletion of oxygen in other enclosed, restricted, or confined space <sup>4</sup> .....	13	—	—	10	12	5	7	—
<b>Fires and explosions</b> .....								
Fires--unintended or uncontrolled .....	167	204	202	207	185	196	206	216
Fires, unspecified .....	59	91	106	97	98	87	117	115
Fire in residence, building, or other structure .....	—	9	6	—	5	5	—	—
Forest, brush, or other outdoor fire .....	31	53	52	57	64	39	69	74
Ignition of clothing from controlled heat source .....	5	—	20	9	10	8	14	6
Explosion .....	—	—	—	—	—	7	—	6
Explosion .....	105	111	96	107	85	109	89	99
Explosion, unspecified .....	18	8	5	7	—	6	—	5
Explosion of pressure vessel or piping .....	36	39	32	42	45	37	39	38
Other events or exposures <sup>5</sup> .....	76	44	24	25	17	21	16	26
<b>Worker activity</b>								
<b>Vehicular and transportation operations</b> .....								
Driving, operating .....	2,312	2,372	2,660	2,448	2,534	2,504	2,527	2,545
Driving, operating .....	1,556	1,595	1,650	1,627	1,624	1,703	1,675	1,648
Automobile .....	448	472	452	457	419	389	371	335
Airplane .....	170	143	157	159	139	157	130	123
Truck .....	613	707	738	719	743	842	838	869
Industrial or construction vehicle .....	97	87	84	98	111	107	115	103
Boat .....	25	27	26	18	28	24	25	27
Train .....	—	8	7	8	9	7	—	7

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Worker activity – continued</b>								
Bus .....	5	8	6	10	6	8	9	18
Bicycle, motorcycle .....	26	17	29	21	19	24	14	21
Riding in, on .....	370	408	535	391	463	389	372	450
Automobile .....	44	48	50	40	33	45	39	43
Airplane .....	137	108	242	117	176	99	76	101
Truck .....	68	93	118	115	101	88	113	127
Industrial/construction vehicle .....	17	11	20	15	11	17	10	13
Boat .....	42	81	55	54	92	92	88	78
Train .....	—	9	12	12	10	6	—	9
Horse .....	—	8	12	9	11	9	12	17
Boarding, alighting .....	33	38	67	48	48	46	33	50
Resurfacing, blacktopping, etc. ....	7	13	5	—	10	8	10	10
Directing, flagging traffic .....	29	36	33	34	21	32	45	48
Walking in or near roadway, etc., n.e.c. ....	82	77	88	89	104	94	116	118
Vehicular and transportation operations, n.e.c. ....	206	185	272	239	237	220	252	206
Driving, operating farm vehicle .....	150	145	209	184	196	170	196	181
Riding in, on farm vehicle .....	10	11	11	24	11	14	14	16
Boarding, alighting farm vehicle .....	5	—	10	—	5	9	6	5
<b>Using or operating tools, machinery</b> .....	585	698	637	572	594	653	542	553
Operating heavy equipment .....	220	307	252	213	198	226	198	171
Hydraulic equipment .....	—	7	—	10	14	13	10	15
Crane .....	31	12	20	20	17	24	26	18
Farm machinery .....	99	170	101	68	55	76	61	37
Mine machinery .....	17	26	10	18	27	16	21	18
Earth moving machinery .....	19	24	44	38	29	29	24	42
Materials handling machinery .....	31	24	30	22	25	24	25	15
Operating machinery .....	84	82	95	74	69	94	61	86
Using power tools .....	46	35	41	44	37	47	29	44
Using nonpowered hand tools .....	15	25	17	20	23	23	29	37
Operating or reading gauges, valves, switches .....	16	21	23	21	19	23	21	24
Welding .....	33	36	39	37	45	51	59	54
Logging, trimming, pruning .....	148	164	147	133	187	178	134	128
Using or operating tools, machinery, gauges, n.e.c. ....	8	17	16	14	6	7	5	—
<b>Constructing, repairing, cleaning</b> .....	978	1,075	1,177	1,182	1,145	1,215	1,225	1,252
Construction, assembling, dismantling .....	353	365	477	468	450	451	505	509
Constructing, assembling .....	80	95	116	141	113	100	120	151
Installing .....	104	108	171	132	150	165	193	200
Dismantling, removing .....	70	71	81	72	70	86	91	66
Repair, maintenance .....	347	422	405	426	411	476	439	428
Repairing .....	173	214	212	208	221	241	221	230
Maintenance .....	42	71	55	54	59	88	80	72
Adjusting .....	12	12	8	16	8	14	19	9
Unjamming .....	20	16	23	24	23	29	30	31
Inspecting or checking .....	57	67	71	57	58	54	66	92
Cleaning, washing .....	101	86	109	88	78	99	91	104
Clearing, spraying .....	22	20	13	17	13	15	17	12
Painting, etc. ....	30	47	44	46	46	52	43	47
Constructing, repairing, cleaning, n.e.c. ....	16	12	18	13	13	14	8	12
<b>Protective service activities</b> .....	156	176	217	207	171	184	164	160
Fighting a fire .....	20	19	47	22	22	27	21	35
Tending to a hazardous materials incident .....	—	—	—	5	—	—	—	—
Apprehending, breaking up fight, chasing .....	26	34	29	43	33	45	35	37
Rescuing or evacuating .....	6	7	9	18	15	17	8	11
<b>Materials handling operations</b> .....	235	255	247	264	249	283	280	303
Lifting materials .....	13	13	12	8	7	12	10	6
Carrying materials .....	16	16	17	11	6	12	22	11

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Worker activity – continued</b>								
Holding materials .....	9	8	—	7	5	8	12	17
Loading, unloading (packing, unpacking) materials .....	92	108	116	129	101	108	99	122
Working with chemicals (except cleaning) .....	20	14	24	18	21	24	22	34
Retrieving objects .....	8	17	13	9	13	15	18	14
Materials handling, n.e.c. ....	53	62	43	57	69	67	70	59
<b>Physical activity<sup>5</sup>, n.e.c.</b> .....	308	364	364	297	346	407	430	407
<b>All other activities</b> .....	1,637	1,390	1,316	1,303	1,162	992	885	785
Tending a retail establishment .....	399	489	539	415	454	417	323	294
Office work .....	49	51	73	76	76	89	80	72
Health care and social services activities .....	14	26	29	19	27	17	30	26
Animal care and tending .....	28	33	28	27	38	38	32	43
Legal service activities .....	9	5	6	7	5	8	—	—
Teaching .....	6	7	—	—	9	—	7	7
Activity, n.e.c. ....	1,118	772	636	751	534	405	399	336
<b>Occupation</b>								
<b>Managerial and professional specialty</b> .....	713	696	776	711	724	668	645	597
Executive, administrative, and managerial .....	444	435	491	471	445	417	411	371
Chief executives and general administrators, public administration .....	—	—	5	—	—	—	—	—
Administrators and officials, public administration .....	22	17	11	24	10	8	10	—
Administrators, protective services .....	—	—	—	—	7	6	7	—
Financial managers .....	8	5	14	14	10	8	8	6
Managers, marketing, advertising, and public relations .....	18	11	30	16	9	11	7	9
Administrators, education and related fields .....	11	6	6	6	5	8	—	—
Managers, medicine and health .....	—	—	—	5	5	8	—	—
Managers, food serving and lodging establishments .....	79	86	75	58	75	89	56	73
Managers, properties and real estate .....	22	20	20	20	23	20	16	19
Funeral directors .....	11	—	—	—	—	—	—	—
Managers, service organizations, n.e.c. ....	11	15	9	11	10	10	10	8
Managers and administrators, n.e.c. ....	206	215	255	246	228	207	217	196
Management related occupations .....	46	46	56	61	52	37	63	44
Accountants and auditors .....	6	13	13	13	13	7	18	11
Other financial officers .....	6	—	5	10	—	—	10	7
Management analysts .....	—	—	6	—	—	—	—	—
Personnel, training, and labor relations specialists .....	—	—	—	—	—	5	—	—
Purchasing agents and buyers, farm products .....	—	5	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c. ....	—	—	—	5	—	—	—	6
Construction inspectors .....	6	5	—	8	8	—	6	—
Inspectors and compliance officers, except construction .....	9	6	10	10	7	6	10	7
Professional specialty .....	269	261	285	240	279	251	234	226
Engineers, architects, and surveyors .....	52	53	70	67	54	45	49	46
Engineers .....	49	45	64	63	52	40	47	41
Aerospace .....	5	7	—	—	5	—	—	—
Chemical .....	—	—	5	—	—	—	—	—
Civil engineers .....	6	14	6	18	—	5	10	11
Electrical and electronic .....	11	8	15	6	12	13	9	7
Industrial .....	—	—	10	6	—	—	—	—
Mechanical .....	6	—	—	8	6	6	—	7
Marine and naval architects .....	—	6	—	—	5	—	—	—
Surveyors and mapping scientists .....	—	6	—	—	—	—	—	—
Mathematical and computer scientists .....	7	6	15	5	6	10	9	—
Computer systems analysts and scientists .....	6	—	11	—	5	8	9	—
Natural scientists .....	25	14	17	10	19	12	10	12

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Occupation – continued</b>								
Geologists and geodesists .....	7	—	—	—	—	—	—	—
Biological and life scientists .....	8	—	6	—	6	—	—	5
Health diagnosing occupations .....	21	21	16	19	19	12	14	12
Physicians .....	13	13	11	12	14	9	8	11
Dentists .....	—	5	—	—	—	—	—	—
Veterinarians .....	—	—	—	5	—	—	—	—
Health assessment and treating occupations .....	22	32	28	17	27	29	19	35
Registered nurses .....	14	21	23	12	15	20	16	19
Teachers, postsecondary .....	—	8	9	6	11	9	12	10
Teachers, except postsecondary .....	34	29	17	20	24	24	37	29
Teachers, elementary school .....	6	6	—	—	5	—	5	—
Teachers, secondary school .....	—	—	—	6	—	6	8	—
Social, recreation, and religious workers .....	32	33	33	22	41	28	23	18
Social workers .....	10	11	11	7	19	13	11	8
Clergy .....	15	12	16	12	13	7	7	—
Lawyers and judges .....	14	11	18	17	17	12	17	13
Lawyers .....	13	11	16	17	16	11	17	13
Writers, artists, entertainers, and athletes .....	51	48	55	50	54	64	40	43
Actors and directors .....	5	5	—	—	—	—	—	—
Photographers .....	9	6	6	9	5	14	6	6
Artists, performers, and related workers .....	7	7	11	6	5	8	8	7
Public relations specialists .....	—	5	—	—	—	—	—	—
Athletes .....	10	15	20	14	23	26	14	19
<b>Technical, sales, and administrative support</b> .....	878	862	965	840	780	760	696	613
Technicians and related support occupations .....	239	179	223	204	171	191	183	161
Health technologists and technicians .....	19	17	20	15	20	15	21	17
Clinical laboratory technologists and technicians .....	5	5	—	—	—	—	—	—
Engineering and related technologists and technicians .....	35	19	27	32	23	33	30	22
Electrical and electronic technicians .....	19	9	15	14	11	16	15	11
Technicians, except health, engineering, and science .....	177	136	162	150	118	133	127	116
Airplane pilots and navigators .....	156	117	142	124	108	118	106	97
Sales occupations .....	517	563	595	500	512	462	398	356
Supervisors and proprietors, sales occupations .....	241	250	252	217	231	226	186	140
Sales representatives, finance and business services .....	46	45	40	33	51	40	31	39
Real estate sales occupations .....	9	11	7	12	12	11	6	5
Securities and financial services sales occupations .....	5	6	—	—	7	—	—	10
Sales representatives, commodities except retail .....	36	35	45	32	35	13	24	27
Sales representatives, mining, manufacturing, and wholesale ..	34	33	44	29	33	13	24	27
Sales workers, retail and personal services .....	191	228	256	215	195	183	153	144
Sales workers, motor vehicles and boats .....	12	17	17	11	19	10	20	6
Sales workers, furniture and home furnishings .....	—	5	—	—	—	—	—	—
Sales workers, parts .....	—	9	—	—	5	—	—	7
Sales counter clerks .....	16	25	27	10	14	12	15	12
Cashiers .....	82	101	111	116	96	84	52	55
Street and door-to-door sales workers .....	12	7	15	7	—	—	6	14
News vendors .....	9	14	23	22	10	22	15	15
Administrative support occupations, including clerical .....	122	120	147	136	97	107	115	96
Supervisors, administrative support occupations .....	—	7	5	7	—	—	6	—
Secretaries, stenographers, and typists .....	14	19	13	21	10	8	12	7
Secretaries .....	13	19	12	21	10	7	12	6
Information clerks .....	10	—	19	13	—	7	13	7
Records processing occupations, except financial .....	—	—	—	6	—	—	7	—
Financial records processing occupations .....	6	8	15	7	6	5	5	5
Bookkeepers, accounting and auditing clerks .....	5	6	11	—	5	5	—	—
Mail and message distributing occupations .....	24	29	37	25	19	28	25	30
Mail carriers, postal service .....	9	12	7	11	8	7	12	12
Messengers .....	12	12	25	8	9	14	9	17

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Occupation – continued</b>								
Material recording, scheduling, and distributing clerks .....	25	20	28	23	22	27	23	19
Dispatchers .....	—	5	6	—	—	6	—	—
Traffic, shipping, and receiving clerks .....	8	8	7	6	5	8	10	—
Stock and inventory clerks .....	6	—	—	7	6	10	6	8
Adjusters and investigators .....	8	9	5	9	14	6	—	10
Miscellaneous administrative support .....	23	21	21	22	17	17	19	12
General office clerks .....	15	13	8	13	11	7	5	6
<b>Service occupations</b> .....	544	548	605	546	500	492	443	470
Private household occupations .....	7	7	12	5	11	—	6	—
Private household cleaners and servants .....	—	—	6	—	6	—	—	—
Protective service occupations .....	283	295	332	321	251	283	261	263
Firefighting and fire prevention occupations, including supervisors .....	36	40	56	41	37	49	46	58
Fire inspection and fire prevention occupations .....	6	—	—	—	—	—	—	—
Firefighting occupations .....	29	37	50	35	35	45	44	48
Police and detectives, including supervisors .....	141	151	149	176	114	156	139	132
Police and detectives, public services .....	95	102	102	121	77	97	87	79
Sheriffs, bailiffs, and other law enforcement officers .....	35	29	28	37	29	36	34	39
Correctional institution officers .....	5	12	7	12	5	16	9	8
Guards, including supervisors .....	106	104	127	104	100	78	76	73
Crossing guards .....	—	8	7	5	5	6	—	—
Guards and police, except public service .....	94	89	113	93	83	68	66	63
Service occupations, except protective and household .....	254	245	261	220	238	205	176	203
Food preparation and service occupations .....	85	76	82	74	53	63	50	66
Supervisors, food preparation and service occupations .....	16	5	8	5	5	—	10	—
Bartenders .....	14	8	19	15	11	—	6	12
Waiters and waitresses .....	11	13	16	8	11	10	8	7
Cooks .....	19	16	18	24	11	26	13	19
Food counter, fountain and related occupations .....	11	9	8	7	5	9	—	—
Kitchen workers, food preparation .....	—	8	—	5	—	—	7	5
Miscellaneous food preparation occupations .....	8	14	9	8	5	7	—	12
Health service occupations .....	21	17	27	33	29	20	17	17
Nursing aides, orderlies, and attendants .....	16	12	21	26	24	15	15	13
Cleaning and building service occupations, except household .....	106	108	95	76	78	85	69	81
Supervisors, cleaning and building services workers .....	8	11	8	—	6	5	—	—
Maids and housemen .....	10	7	—	—	—	6	5	9
Janitors and cleaners .....	84	84	80	67	64	73	56	64
Pest control occupations .....	—	6	—	—	—	—	—	—
Personal service occupations .....	42	44	57	37	78	37	40	39
Barbers .....	—	—	—	5	—	—	—	5
Hairdressers and cosmetologists .....	7	7	—	7	—	7	—	—
Attendants, amusement and recreation facilities .....	9	7	18	7	11	6	7	13
Guides .....	9	11	—	—	—	6	11	5
Public transportation attendants .....	6	—	8	—	38	—	—	—
<b>Farming, forestry, and fishing</b> .....	936	966	949	869	891	925	930	897
Farming operators and managers .....	344	412	379	334	379	387	374	362
Farmers, except horticultural .....	259	330	261	244	305	296	281	233
Horticultural specialty farmers .....	6	7	12	17	9	16	11	11
Managers, farms, except horticultural .....	69	67	102	73	61	72	81	118
Managers, horticultural specialty farms .....	10	8	—	—	—	—	—	—
Other agricultural and related occupations .....	344	321	366	359	303	350	365	335
Farm occupations, except managerial .....	263	217	268	267	194	229	242	211
Supervisors, farm workers .....	55	25	10	18	22	13	17	7
Farm workers .....	205	187	256	243	169	200	221	199
Nursery workers .....	—	—	—	5	—	16	—	—
Related agricultural occupations .....	81	104	98	92	109	121	123	124
Supervisors, related agricultural occupations .....	10	11	10	5	13	11	10	8

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Occupation – continued</b>								
Groundskeepers and gardeners, except farm .....	68	87	79	78	91	104	108	106
Animal caretakers, except farm .....	—	6	7	8	—	—	—	9
Forestry and logging occupations .....	155	142	137	116	135	128	119	122
Supervisors, forestry, and logging workers .....	13	11	19	12	10	11	20	12
Forestry workers, except logging .....	9	7	6	6	6	7	9	8
Timber cutting and logging occupations .....	133	124	112	98	119	110	90	102
Fishers, hunters, and trappers .....	93	91	67	60	74	60	72	78
Fishers, including vessel captains and officers .....	92	91	67	58	74	58	71	78
<b>Precision production, craft, and repair</b> .....								
Mechanics and repairers .....	1,087	1,113	1,096	1,054	1,085	1,095	1,094	1,148
Supervisors, mechanics and repairers .....	284	326	298	273	286	327	291	358
Mechanics and repairers, except supervisors .....	19	28	22	26	14	17	12	22
Vehicle and mobile equipment mechanics, repairers .....	265	298	276	247	272	310	279	336
Automobile mechanics and apprentices .....	116	141	114	120	134	136	140	159
Bus, truck, and stationary engine mechanics .....	39	61	50	49	35	49	48	49
Aircraft engine mechanics .....	27	26	17	22	35	31	39	39
Automobile body and related repairers .....	5	8	6	5	8	6	8	9
Heavy equipment mechanics .....	12	5	12	10	11	11	8	9
Farm equipment mechanics .....	20	33	24	24	38	32	28	43
Industrial machinery repairers .....	—	—	—	—	—	—	5	5
Machinery maintenance occupations .....	23	24	17	16	20	32	18	27
Electrical and electronic equipment repairers .....	12	11	11	6	5	12	—	7
Electronic repairers, communications and industrial equipment .....	44	41	38	31	32	36	43	44
Household appliance and power tool repairers .....	13	19	19	13	15	10	25	22
Telephone line installers and repairers .....	—	—	—	5	—	7	8	—
Telephone installers and repairers .....	8	—	7	—	—	10	6	7
Miscellaneous electrical and electronic equipment repairers .....	6	7	—	—	7	—	—	8
Heating, air conditioning, and refrigeration mechanics .....	10	9	5	5	—	6	—	5
Miscellaneous mechanics and repairers .....	19	16	12	17	21	14	17	24
Office machine repairers .....	51	65	84	57	60	80	58	75
Elevator installers and repairers .....	—	—	—	—	—	—	—	8
Millwrights .....	6	6	7	8	—	11	5	7
Construction trades .....	13	—	14	11	12	13	—	7
Supervisors, construction occupations .....	590	570	615	610	598	592	633	633
Supervisors, carpenters and related workers .....	91	95	111	89	85	73	89	91
Supervisors, electricians and power transmission installers .....	12	6	5	—	—	7	—	7
Supervisors, painters, paperhangers, and plasterers .....	—	7	5	6	—	10	7	12
Supervisors, plumbers, pipefitters, and steamfitters .....	—	—	6	—	—	—	—	—
Supervisors, n.e.c. .....	—	—	5	—	6	—	—	—
Construction trades, except supervisors .....	64	78	87	74	68	49	73	66
Brickmasons, stonemasons, and apprentices .....	499	475	504	521	513	519	544	542
Carpenters and apprentices .....	11	20	12	23	12	13	14	21
Drywall installers .....	92	91	87	96	89	97	91	103
Electricians and apprentices .....	—	10	9	8	8	7	6	10
Electrical power installers and repairers .....	89	72	99	118	99	94	124	105
Painters, construction and maintenance .....	37	42	35	36	39	48	34	34
Plumbers, pipefitters, steamfitters, and apprentices .....	45	51	40	45	44	39	41	38
Insulation workers .....	33	41	40	33	34	36	33	39
Paving, surfacing, and tamping equipment operators .....	—	—	7	—	—	8	10	—
Roofers .....	8	5	—	—	—	—	6	8
Structural metal workers .....	50	47	53	60	61	55	50	59
Drillers, earth .....	47	34	48	38	52	45	52	43
Extractive occupations .....	—	5	7	—	8	10	8	6
Supervisors, extractive occupations .....	86	97	76	67	87	75	61	47
Drillers, oil wells .....	13	12	11	—	10	14	10	7
Mining machine operators .....	10	27	22	17	22	11	15	—
Precision production occupations .....	38	25	29	28	28	21	20	20
	127	120	107	104	114	101	109	110

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Occupation – continued</b>								
Precision metal working occupations .....	39	32	35	27	32	24	34	39
Machinists .....	15	12	15	9	9	13	18	17
Boilermakers .....	7	6	7	6	—	—	—	7
Sheet metal workers .....	7	7	7	7	9	6	10	9
Precision woodworking occupations .....	6	—	—	6	—	—	—	—
Precision textile, apparel, and furnishings machine workers .....	—	—	—	—	—	—	6	—
Precision workers, assorted materials .....	—	—	—	—	6	6	—	—
Precision food production occupations .....	13	12	—	—	8	7	—	—
Butchers and meat cutters .....	9	6	—	—	6	—	—	—
Bakers .....	—	5	—	—	—	—	—	—
Precision inspectors, testers, and related workers .....	—	—	7	—	—	—	—	—
Inspectors, testers, and graders .....	—	—	5	—	—	—	—	—
Plant and system operators .....	26	24	19	25	20	28	13	15
Water and sewage treatment plant operators .....	5	—	—	7	—	13	—	5
Stationary engineers .....	7	11	6	8	7	5	5	—
<b>Operators, fabricators, and laborers</b> .....	1,919	1,980	2,072	2,072	2,043	2,170	2,159	2,196
Machine operators, assemblers, and inspectors .....	227	207	258	239	221	222	222	216
Machine operators and tenders, except precision .....	140	125	163	145	136	127	135	125
Metal working and plastic working machine operators .....	9	6	15	11	17	7	10	11
Metal and plastic processing machine operators .....	9	11	—	10	—	7	6	—
Molding and casting machine operators .....	—	9	—	6	—	—	—	—
Woodworking machine operators .....	17	14	15	10	10	13	9	7
Sawing machine operators .....	15	10	10	7	8	10	6	—
Printing machine operators .....	9	5	—	7	—	—	—	—
Printing press operators .....	5	—	—	6	—	—	—	—
Textile, apparel, and furnishings machine operators .....	11	7	10	13	—	6	8	9
Textile sewing machine operators .....	—	5	—	—	—	—	—	—
Laundering and dry cleaning machine operators .....	—	—	—	7	—	—	5	6
Machine operators, assorted materials .....	84	80	114	93	97	89	100	89
Packaging and filling machine operators .....	—	—	6	—	—	—	—	—
Mixing and blending machine operators .....	5	—	9	—	6	—	—	—
Separating, filtering, and clarifying machine operators .....	—	—	—	5	7	—	5	6
Painting and paint spraying machine operators .....	—	—	9	7	—	7	—	5
Furnace, kiln, and oven operators, except food .....	10	8	8	7	6	5	9	—
Crushing and grinding machine operators .....	—	—	5	—	—	—	6	5
Slicing and cutting machine operators .....	—	—	—	5	—	—	8	—
Miscellaneous machine operators, n.e.c. ....	26	24	37	24	33	32	35	31
Machine operators, not specified .....	24	27	29	30	29	27	22	24
Fabricators, assemblers, and hand working occupations .....	76	74	87	87	75	83	80	82
Welders and cutters .....	65	58	67	72	63	61	65	67
Assemblers .....	9	10	12	10	9	15	12	12
Production inspectors, testers, samplers, and weighers .....	11	8	8	7	10	12	7	9
Transportation and material moving occupations .....	1,121	1,195	1,182	1,163	1,178	1,277	1,262	1,322
Motor vehicle operators .....	875	928	931	932	928	1,032	1,025	1,064
Truck drivers .....	701	740	767	759	797	862	883	899
Driver-sales workers .....	46	42	30	35	35	44	36	42
Bus drivers .....	14	15	11	18	11	13	13	36
Taxicab drivers and chauffeurs .....	106	113	113	100	66	100	82	74
Parking lot attendants .....	—	5	—	8	—	5	—	—
Transportation occupations, except motor vehicles .....	83	86	77	64	72	76	40	53
Rail transportation occupations .....	27	42	31	25	22	27	15	24
Railroad conductors and yardmasters .....	6	12	9	16	—	10	—	15
Locomotive operating occupations .....	—	12	7	6	11	8	5	—
Railroad brake, signal, and switch operators .....	13	17	11	—	7	9	5	6
Water transportation occupations .....	56	44	46	39	50	49	25	29
Ship captains and mates, except fishing boats .....	14	11	13	—	10	14	—	12
Sailors and deckhands .....	41	31	29	31	38	32	18	16
Material moving equipment operators .....	163	181	174	167	178	169	197	205
Operating engineers .....	37	39	42	44	38	47	46	57

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Occupation – continued</b>								
Hoist and winch operators .....	10	9	12	12	12	7	14	8
Crane and tower operators .....	13	13	11	15	14	15	12	14
Excavating and loading machine operators .....	13	22	22	16	26	23	24	21
Grader, dozer, and scraper operators .....	22	27	23	23	19	15	20	26
Industrial truck and tractor equipment operators .....	41	44	39	33	46	36	46	56
Handlers, equipment cleaners, helpers, and laborers .....	571	578	632	670	644	671	675	658
Helpers, mechanics and repairers .....	6	6	—	5	5	—	6	6
Helpers, construction and extractive occupations .....	13	15	22	10	14	14	19	15
Helpers, construction trades .....	11	11	16	7	12	11	17	14
Construction laborers .....	228	236	247	311	294	333	335	341
Production helpers .....	6	—	12	12	—	8	5	6
Freight, stock, and material handlers .....	84	81	76	76	71	68	80	65
Garbage collectors .....	20	18	23	29	21	21	25	19
Stevedores .....	5	10	—	6	6	11	11	9
Stock handlers and baggers .....	29	21	17	13	23	11	10	12
Machine feeders and offbearers .....	7	8	—	5	—	—	—	—
Garage and service station related occupations .....	31	34	23	28	17	19	24	14
Vehicle washers and equipment cleaners .....	9	7	15	12	12	13	12	14
Hand packers and packagers .....	8	—	—	—	6	—	—	—
Laborers, except construction .....	176	188	229	213	218	210	193	193
<b>Industry</b>								
<b>Private industry</b> .....	5,497	5,643	5,959	5,495	5,597	5,616	5,457	5,461
<b>Agriculture, forestry and fishing</b> .....								
Agricultural production - crops .....	808	864	852	800	806	833	840	807
Agricultural production - crops .....	405	400	443	363	337	373	380	350
Cash grains .....	20	44	29	28	26	31	31	21
Wheat .....	—	—	—	—	7	—	—	—
Corn .....	—	5	—	6	6	23	—	—
Cash grains, n.e.c. .....	5	5	7	—	8	—	6	—
Field crops, except cash grains .....	15	21	26	34	43	53	33	46
Cotton .....	5	—	8	5	—	—	—	—
Tobacco .....	—	—	—	—	—	5	5	9
Sugarcane and sugar beets .....	—	8	—	—	5	—	—	—
Irish potatoes .....	—	—	7	—	—	—	—	—
Field crops, except grains, n.e.c. .....	—	7	6	9	14	24	16	12
Vegetables and melons .....	9	14	10	7	8	10	13	9
Fruits and tree nuts .....	19	24	20	26	14	24	23	29
Grapes .....	—	—	6	6	—	—	—	—
Tree nuts .....	—	—	—	—	—	6	—	—
Citrus fruits .....	—	5	—	6	5	—	—	—
Deciduous tree fruits .....	—	12	—	7	6	6	10	7
Fruits and tree nuts, n.e.c. .....	—	—	—	—	—	—	—	13
Horticultural specialties .....	8	8	14	—	9	8	11	13
Ornamental nursery products .....	5	7	10	—	9	8	10	12
General farms, primarily crop .....	224	185	248	209	199	224	249	215
Agricultural production - livestock .....	165	214	172	162	157	183	174	163
Livestock, except dairy and poultry .....	48	61	49	66	62	63	58	63
Beef cattle feedlots .....	—	10	7	8	9	12	6	6
Beef cattle, except feedlots .....	21	25	23	31	30	42	37	49
Hogs .....	6	5	5	9	—	5	6	—
General livestock, n.e.c. .....	9	9	—	—	7	—	5	—
Dairy farms .....	53	75	70	47	57	60	35	50
Poultry and eggs .....	6	5	8	8	—	13	12	13
Broiler, fryer, and roaster chickens .....	—	—	—	5	—	5	—	6
Animal specialties .....	—	8	8	7	—	6	10	8
Horses and other equines .....	—	—	—	—	—	—	7	7
General farms, primarily animal .....	42	52	24	28	21	37	54	23

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Agricultural services .....	137	155	163	156	172	178	170	164
Soil preparation services .....	—	—	5	—	—	—	—	—
Crop services .....	30	31	38	36	28	47	29	31
Crop planting and protecting .....	9	17	23	23	19	28	11	18
Crop harvesting .....	—	—	—	—	—	7	8	5
Crop preparation services for market .....	—	—	8	—	—	8	8	—
Cotton ginning .....	5	—	—	6	—	—	—	—
Veterinary services .....	—	—	—	6	5	—	—	—
Animal services, except veterinary .....	5	8	6	9	5	7	8	6
Animal specialty services .....	—	6	6	8	5	—	7	6
Farm labor and management services .....	9	11	10	13	11	11	18	9
Farm labor contractors .....	—	—	8	11	9	10	16	6
Landscape and horticultural services .....	86	93	100	92	123	110	112	107
Landscape counseling and planning .....	9	6	14	6	10	5	12	—
Lawn and garden services .....	18	18	29	34	40	34	47	35
Ornamental shrub and tree services .....	35	53	43	40	68	66	51	60
Forestry .....	18	8	10	14	11	6	13	8
Timber tracts .....	9	—	6	6	7	—	7	5
Forestry services .....	8	—	—	5	—	—	5	—
Fishing, hunting, and trapping .....	83	87	64	63	75	63	75	81
Commercial fishing .....	79	84	64	60	73	61	71	79
Finfish .....	33	31	17	20	25	19	29	16
Shellfish .....	33	42	27	32	27	28	33	48
Miscellaneous marine products .....	5	—	—	—	7	5	—	—
<b>Mining</b> .....	181	174	180	156	153	158	147	121
Metal mining .....	12	17	16	13	12	14	11	12
Copper ores .....	—	7	—	—	—	—	—	—
Gold and silver ores .....	6	5	9	—	7	6	—	6
Gold ores .....	6	5	7	—	6	6	—	5
Coal mining .....	60	40	41	43	39	32	30	35
Bituminous coal and lignite mining .....	51	39	38	38	36	32	26	28
Bituminous coal and lignite-surface .....	12	7	19	6	6	5	6	9
Bituminous coal-underground .....	34	32	18	32	26	24	20	19
Oil and gas extraction .....	82	94	99	77	83	85	76	50
Crude petroleum and natural gas .....	10	14	9	9	11	8	9	11
Oil and gas field services .....	70	79	85	68	72	76	63	39
Drilling oil and gas wells .....	27	22	24	20	27	28	20	7
Oil and gas exploration services .....	—	—	5	7	—	—	6	7
Oil and gas field services, n.e.c. .....	41	53	55	40	39	44	37	25
Nonmetallic minerals, except fuels .....	27	23	24	23	19	27	30	24
Crushed and broken stone .....	10	6	13	9	9	9	12	8
Crushed and broken limestone .....	5	—	7	—	6	5	6	8
Sand and gravel .....	10	7	8	5	7	11	11	11
Construction sand and gravel .....	9	6	7	5	6	8	10	10
Chemical and fertilizer minerals .....	—	—	—	7	—	—	—	—
Potash, soda, and borate minerals .....	—	—	—	5	—	—	—	—
<b>Construction</b> .....	919	932	1,028	1,055	1,047	1,107	1,174	1,190
General building contractors .....	175	156	190	176	184	194	213	183
Residential building construction .....	84	66	83	84	83	89	115	98
Single-family housing construction .....	42	40	50	64	65	65	87	79
Residential construction, n.e.c. .....	14	11	20	14	9	16	20	14
Nonresidential building construction .....	73	70	96	82	88	92	79	76
Industrial buildings and warehouses .....	21	28	37	29	33	33	24	30
Nonresidential construction, n.e.c. .....	41	33	48	48	51	53	51	44
Heavy construction, except building .....	241	255	246	246	248	252	272	280
Highway and street construction .....	92	72	76	90	91	82	104	86
Heavy construction, except highway .....	138	176	165	155	155	163	167	189
Bridge, tunnel, and elevated highway .....	23	26	20	30	19	22	19	20

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Water, sewer, and utility lines .....	56	86	90	63	77	72	96	103
Heavy construction, n.e.c. ....	58	63	55	61	54	69	50	64
Special trades contractors .....	503	521	592	618	606	648	680	709
Plumbing, heating and air-conditioning .....	53	48	71	63	64	61	65	66
Painting and paper hanging .....	37	39	40	47	41	45	42	36
Electrical work .....	75	68	78	92	72	82	115	107
Masonry, stonework, tile setting, and plastering .....	32	42	53	66	52	42	53	57
Masonry and other stonework .....	20	24	15	36	26	23	27	36
Plastering, drywall, and insulation .....	11	14	26	24	25	17	22	20
Terrazzo, tile, marble, mosaic work .....	—	—	10	5	—	—	—	—
Carpentry and floor work .....	36	40	31	38	37	44	42	46
Carpentry work .....	30	35	28	37	29	39	37	43
Floor laying and floor work, n.e.c. ....	—	5	—	—	6	—	5	—
Roofing, siding, and sheet metal work .....	80	84	89	97	99	104	91	96
Concrete work .....	21	18	34	34	29	32	28	42
Water well drilling .....	5	10	8	—	11	10	10	5
Miscellaneous special trade contractors .....	161	159	183	174	199	223	227	244
Structural steel erection .....	42	41	52	42	55	48	57	56
Glass and glazing work .....	—	—	—	—	7	—	7	—
Excavation work .....	35	33	47	39	50	50	42	43
Wrecking and demolition work .....	22	14	22	19	15	27	20	22
Installing building equipment, n.e.c. ....	14	14	12	10	16	17	12	20
Special trade contractors, n.e.c. ....	45	56	47	61	55	77	87	99
<b>Manufacturing</b> .....								
Food and kindred products .....	765	767	789	709	725	744	698	719
Food and kindred products .....	92	84	79	75	73	78	72	83
Meat products .....	28	19	15	21	29	16	23	25
Meat packing plants .....	18	12	—	11	15	5	5	8
Sausages and other prepared meats .....	—	—	—	—	—	—	—	5
Poultry slaughtering and processing .....	6	6	9	9	12	9	14	12
Dairy products .....	5	6	5	5	—	7	6	7
Fluid milk .....	—	—	—	—	—	5	—	—
Preserved fruits and vegetables .....	11	10	9	6	—	—	10	5
Grain mill products .....	12	12	13	15	9	15	8	11
Prepared feeds, n.e.c. ....	5	—	8	5	6	12	6	—
Bakery products .....	—	8	7	9	9	7	5	11
Sugar and confectionery products .....	6	8	5	—	—	10	—	—
Fats and oils .....	—	5	—	—	6	—	6	6
Beverages .....	12	8	11	—	6	5	—	10
Miscellaneous food and kindred products .....	14	8	13	12	—	10	8	5
Fresh or frozen prepared fish .....	—	—	—	5	—	—	—	—
Food preparations, n.e.c. ....	—	—	—	5	—	5	5	—
Tobacco products .....	—	—	—	—	—	—	5	—
Textile mill products .....	8	19	12	9	12	12	9	10
Apparel and other textile products .....	10	12	8	5	6	7	9	10
Miscellaneous fabricated textile products .....	—	—	—	—	—	—	6	—
Lumber and wood products .....	228	205	199	183	204	199	172	190
Logging .....	166	147	130	139	156	136	125	138
Sawmills and planing mills .....	41	29	35	22	28	32	24	21
Sawmills and planing mills, general .....	38	28	28	16	24	25	20	18
Hardwood dimension and flooring mills .....	—	—	—	5	—	—	—	—
Millwork, plywood and structural members .....	12	12	13	10	7	15	11	13
Millwork .....	5	—	5	—	—	—	—	—
Wood kitchen cabinets .....	—	—	6	—	—	—	—	—
Hardwood veneer and plywood .....	—	—	—	—	—	5	—	—
Wood containers .....	—	—	6	—	—	—	5	6
Wood buildings and mobile homes .....	—	—	6	—	5	—	—	5
Miscellaneous wood products .....	5	9	7	7	5	10	—	—
Furniture and fixtures .....	17	8	11	11	10	7	12	7
Household furniture .....	10	—	7	5	5	5	9	6

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Paper and allied products .....	28	15	33	28	19	24	16	27
Paper mills .....	10	—	14	7	6	11	9	6
Paperboard mills .....	—	—	—	—	—	—	—	5
Paperboard containers and boxes .....	7	—	11	8	8	6	—	7
Miscellaneous converted paper products .....	—	—	—	9	—	5	—	8
Printing and publishing .....	32	38	28	42	31	35	28	25
Newspapers .....	14	21	18	24	22	25	16	14
Commercial printing .....	15	9	5	11	5	—	7	8
Commercial printing, lithographic .....	8	6	—	5	—	—	—	—
Chemicals and allied products .....	34	32	46	38	26	33	48	47
Industrial inorganic chemicals .....	6	—	9	8	5	6	8	5
Plastics materials and synthetics .....	6	5	10	—	—	5	—	—
Drugs .....	—	—	—	10	—	6	—	—
Medicinals and botanicals .....	—	—	—	7	—	—	—	—
Pharmaceutical preparations .....	—	—	—	—	—	5	—	—
Soap, cleaners, and toilet goods .....	—	—	—	5	—	—	5	—
Industrial organic chemicals .....	5	—	—	—	—	7	7	11
Agricultural chemicals .....	5	—	7	—	—	—	—	—
Miscellaneous chemical products .....	6	7	8	9	9	—	18	15
Explosives .....	—	—	—	—	—	—	5	—
Petroleum and coal products .....	10	17	10	19	13	11	18	9
Petroleum refining .....	7	15	5	13	9	—	10	5
Asphalt paving and roofing materials .....	—	—	—	5	—	6	6	—
Rubber and miscellaneous plastics products .....	32	29	34	23	21	22	16	19
Tires and inner tubes .....	—	—	5	—	—	—	—	—
Fabricated rubber products, n.e.c. .....	—	—	—	6	—	—	—	—
Miscellaneous plastics products, n.e.c. .....	24	23	24	14	17	17	14	15
Stone, clay, glass and concrete products .....	43	53	41	40	53	48	50	44
Glass and glassware, pressed or blown .....	—	—	—	—	5	—	—	—
Concrete, gypsum, and plaster products .....	29	37	24	25	29	31	37	34
Concrete block and brick .....	7	7	—	5	—	—	—	5
Ready-mixed concrete .....	9	14	13	11	20	19	17	16
Cut stone and stone products .....	—	—	6	—	9	6	—	—
Miscellaneous nonmetallic mineral products .....	—	—	—	5	—	—	—	—
Primary metal industries .....	63	71	64	54	68	59	46	50
Blast furnace and basic steel products .....	26	32	36	25	32	25	23	18
Blast furnaces and steel mills .....	18	24	26	17	26	17	18	14
Iron and steel foundries .....	7	10	8	8	17	17	6	16
Gray and ductile iron foundries .....	—	8	—	7	9	10	—	11
Primary nonferrous metals .....	8	5	—	—	—	—	5	—
Secondary nonferrous metals .....	—	5	6	—	5	—	—	—
Nonferrous rolling and drawing .....	7	6	7	7	6	—	—	—
Copper rolling and drawing .....	—	5	—	—	—	—	—	—
Nonferrous foundries (castings) .....	—	9	—	6	—	5	—	—
Fabricated metal products .....	39	46	51	47	54	50	49	46
Fabricated structural metal products .....	17	19	22	20	21	28	30	21
Fabricated structural metal .....	7	—	5	7	12	11	11	8
Fabricated plate work (boiler shops) .....	5	5	8	—	—	7	7	6
Sheet metal work .....	—	5	—	—	—	—	—	—
Metal forgings and stampings .....	7	6	11	6	8	8	6	—
Iron and steel forgings .....	—	—	—	—	5	—	—	—
Automotive stampings .....	—	—	8	5	—	—	—	—
Metal services, n.e.c. .....	—	7	9	8	11	5	5	8
Miscellaneous fabricated metal products .....	5	—	—	7	8	9	—	10
Industrial machinery and equipment .....	44	44	69	47	45	69	63	54
Engines and turbines .....	—	—	—	—	—	5	—	—
Construction and related machinery .....	9	9	20	17	14	24	12	17
Construction machinery .....	—	6	6	8	—	9	—	9
Oil and gas field machinery .....	—	—	6	—	5	—	—	—
Metalworking machinery .....	—	9	15	7	5	9	9	12

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Special industry machinery .....	5	—	5	—	—	—	—	—
General industrial machinery .....	—	—	5	—	—	—	8	—
Computer and office equipment .....	—	—	—	—	—	—	6	—
Refrigeration and service machinery .....	5	—	—	—	—	—	6	—
Industrial machinery, n.e.c. ....	10	8	13	10	8	16	14	11
Electronic and other electronic equipment .....	20	18	24	16	16	13	10	13
Communications equipment .....	—	—	6	—	—	—	—	—
Electronics components and accessories .....	6	6	9	8	—	6	—	—
Transportation equipment .....	45	55	51	51	54	57	61	68
Motor vehicles and equipment .....	12	16	17	18	18	24	24	33
Motor vehicles and car bodies .....	5	5	7	6	6	7	5	12
Motor vehicle parts and accessories .....	—	8	6	7	10	15	8	12
Aircraft and parts .....	14	15	7	10	14	10	—	9
Ship and boat building and repairing .....	15	18	18	10	15	17	27	20
Miscellaneous transportation equipment .....	—	—	—	5	5	5	—	—
Instruments and related products .....	9	6	13	9	—	—	5	—
Search and navigation equipment .....	—	—	5	—	—	—	—	—
Measuring and controlling devices .....	—	—	5	—	—	—	—	—
Medical instruments and supplies .....	—	—	—	5	—	—	—	—
Miscellaneous manufacturing industries .....	9	15	14	7	10	14	8	11
Toys and sporting goods .....	—	—	—	—	—	—	—	5
Miscellaneous manufactures .....	7	11	12	5	8	13	7	6
<b>Transportation and public utilities</b> .....								
Railroad transportation .....	895	894	949	901	970	1,008	911	1,006
Railroads .....	30	44	31	35	31	33	17	32
Local and interurban passenger transportation .....	30	44	31	34	31	33	16	32
Local and suburban transportation .....	126	130	114	117	79	106	85	102
Local and suburban transportation .....	16	11	8	17	11	11	18	20
Taxis .....	100	106	102	92	60	93	63	66
Bus charter service .....	—	—	—	5	5	—	—	6
School buses .....	—	—	—	—	—	—	—	7
Trucking and warehousing .....	450	471	505	476	520	573	564	605
Trucking and courier services, except air .....	412	429	475	439	482	520	538	562
Local trucking, without storage .....	110	109	110	109	111	128	148	140
Trucking, except local .....	173	211	280	276	282	329	328	361
Local trucking with storage .....	7	—	8	11	8	9	9	8
Courier services, except by air .....	21	13	17	8	31	28	10	19
Public warehousing and storage .....	13	19	18	11	15	28	14	21
Farm product warehousing and storage .....	6	6	6	—	—	8	—	6
General warehousing and storage .....	—	5	6	8	8	12	11	7
Trucking terminal facilities .....	—	—	8	7	8	5	6	8
Water transportation .....	70	51	48	52	69	72	52	55
Deep sea foreign transportation of freight .....	11	5	6	8	9	16	9	6
Deep sea domestic transportation of freight .....	—	—	—	—	—	5	—	—
Water transportation of freight, n.e.c. ....	9	—	7	6	13	—	7	6
Water transportation of passengers .....	—	—	—	—	8	—	—	—
Deep sea transportation of passengers, except by ferry .....	—	—	—	—	8	—	—	—
Water transportation services .....	44	40	30	30	36	46	32	39
Marine cargo handling .....	12	12	12	13	15	19	20	17
Towing and tugboat services .....	20	16	8	7	11	12	7	11
Marinas .....	—	—	—	—	6	—	—	5
Transportation by air .....	90	79	99	80	115	83	74	74
Air transportation, scheduled .....	24	33	45	26	72	23	23	21
Air transportation, scheduled .....	19	24	36	15	67	10	8	13
Air courier services .....	—	5	7	8	—	13	13	6
Air transportation, nonscheduled .....	42	27	35	39	32	44	41	41
Airports, flying fields, and services .....	19	19	18	12	8	16	10	10
Transportation services .....	15	21	29	22	17	23	13	21
Passenger transportation arrangement .....	—	—	13	6	—	—	—	5
Freight transportation arrangement .....	11	11	10	10	9	12	8	8

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Miscellaneous transportation services .....	—	6	5	6	6	8	—	8
Communications .....	24	25	32	25	42	25	19	30
Telephone communications .....	17	14	14	11	19	15	6	18
Telephone communications, except radio .....	15	11	10	9	16	11	6	14
Radio and television broadcasting .....	—	7	9	5	10	—	—	6
Cable and other pay television services .....	—	—	8	7	10	5	10	5
Electric, gas, and sanitary services .....	86	72	89	91	89	89	83	86
Electric services .....	37	23	35	34	29	34	27	24
Gas production and distribution .....	—	7	9	—	13	6	6	7
Combination utility services .....	16	11	8	6	7	10	9	5
Electric and other services combined .....	10	6	6	—	—	6	5	—
Sanitary services .....	26	30	33	46	35	34	39	45
Refuse systems .....	21	27	26	42	34	32	31	38
<b>Wholesale trade</b> .....	253	252	271	256	270	241	229	237
Wholesale trade-durable goods .....	140	139	158	158	154	140	138	132
Motor vehicles, parts, and supplies .....	23	16	24	31	31	26	27	23
Automobiles and other motor vehicles .....	—	—	5	5	—	10	7	7
Motor vehicle supplies and new parts .....	10	6	8	11	14	5	10	7
Tires and tubes .....	—	—	—	6	—	—	—	—
Furniture and homefurnishings .....	7	—	6	6	—	5	—	—
Lumber and construction materials .....	13	18	25	12	16	20	12	12
Professional and commercial equipment .....	5	13	14	10	8	6	10	13
Metals and minerals, except petroleum .....	8	9	8	5	5	5	5	11
Electrical goods .....	9	—	6	10	13	6	7	10
Hardware, plumbing and heating equipment .....	18	10	9	7	10	6	9	5
Machinery, equipment, and supplies .....	30	31	29	33	27	23	27	28
Miscellaneous durable goods .....	27	34	37	44	40	43	39	25
Toys and hobby goods and supplies .....	—	—	—	—	—	5	—	—
Scrap and waste materials .....	22	25	34	39	31	33	30	22
Wholesale trade-nondurable goods .....	113	113	113	97	116	100	91	105
Paper and paper products .....	—	—	6	—	7	—	—	—
Drugs, proprietaries, and sundries .....	—	—	—	—	—	—	—	5
Groceries and related products .....	36	42	39	33	37	32	28	44
Packaged frozen foods .....	—	—	—	—	—	5	—	—
Dairy products, except dried or canned .....	—	7	—	—	—	—	—	—
Fresh fruits and vegetables .....	—	7	—	6	—	7	—	6
Farm-product raw materials .....	10	17	20	13	11	14	17	10
Chemicals and allied products .....	6	5	—	—	9	—	—	—
Petroleum and petroleum products .....	21	13	13	19	18	16	22	16
Petroleum bulk stations and terminals .....	5	5	—	5	8	5	—	8
Petroleum and petroleum products wholesalers, except bulk stations and terminals .....	13	7	9	13	10	10	18	7
Beer, wine, and distilled beverages .....	6	11	—	5	—	5	5	5
Miscellaneous nondurable goods .....	21	21	24	19	26	22	15	16
<b>Retail trade</b> .....	734	795	808	687	681	670	570	507
Building materials and garden supplies .....	30	32	43	37	40	28	43	29
Lumber and other building materials .....	13	20	25	26	24	17	26	19
Hardware stores .....	9	—	—	—	—	—	6	—
Retail nurseries and garden stores .....	—	—	6	—	6	—	—	—
Mobile home dealers .....	5	5	7	—	7	—	7	5
General merchandise stores .....	26	26	33	19	25	16	27	24
Department stores .....	11	14	15	8	9	6	13	14
Variety stores .....	6	5	—	6	8	5	—	5
Miscellaneous general merchandise stores .....	9	5	14	5	7	5	10	5
Food stores .....	212	227	237	190	180	192	135	115
Grocery stores .....	187	201	218	175	168	172	120	94
Meat and fish markets .....	—	—	—	—	5	—	—	—
Retail bakeries .....	11	13	11	6	5	6	6	8

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Automotive dealers and service stations .....	115	139	123	125	98	115	120	82
New and used car dealers .....	23	30	34	27	31	20	37	14
Used car dealers .....	7	7	11	18	10	14	15	—
Auto and home supply stores .....	20	23	17	23	18	23	14	22
Gasoline service stations .....	54	68	55	49	36	43	40	28
Boat dealers .....	—	—	—	—	—	—	—	5
Motorcycle dealers .....	—	—	—	—	—	6	8	—
Apparel and accessory stores .....	22	23	12	20	12	10	11	5
Family clothing stores .....	5	7	—	11	—	7	—	—
Shoe stores .....	—	5	—	—	—	—	—	—
Miscellaneous apparel and accessory stores .....	5	—	—	—	—	—	—	—
Furniture and homefurnishings stores .....	13	25	34	21	32	28	25	16
Furniture and homefurnishings stores .....	6	10	16	11	18	18	14	6
Radio, television, and computer stores .....	6	11	16	9	13	7	8	8
Eating and drinking places .....	190	201	184	168	166	151	107	145
Eating places .....	114	115	121	95	93	106	69	96
Drinking places .....	37	39	39	38	58	29	27	39
Miscellaneous retail .....	126	122	142	104	126	126	101	91
Drug stores and proprietary stores .....	—	8	7	6	7	8	5	5
Liquor stores .....	24	23	23	18	18	20	23	20
Used merchandise stores .....	17	16	22	10	15	30	11	8
Miscellaneous shopping goods stores .....	32	24	19	15	28	19	18	14
Sporting goods and bicycle shops .....	10	7	—	—	12	7	6	—
Jewelry stores .....	9	8	10	5	8	—	7	6
Gift, novelty, and souvenir shops .....	5	—	—	—	—	—	—	—
Nonstore retailers .....	18	23	34	20	25	18	21	19
Direct selling establishments .....	12	17	32	17	21	15	17	16
Fuel dealers .....	16	10	10	20	10	17	7	—
Fuel oil dealers .....	—	—	—	8	—	5	—	—
Liquefied petroleum gas dealers .....	10	5	5	11	6	12	—	—
Retail stores, n.e.c. .....	13	16	26	14	23	14	16	20
Florists .....	5	5	7	—	7	—	—	—
<b>Finance, insurance, and real estate</b> .....								
Depository institutions .....	122	118	113	125	116	97	92	105
Commercial banks .....	21	10	22	31	16	14	20	13
Credit unions .....	13	7	18	8	9	8	14	6
Functions closely related to banking .....	—	—	—	19	—	—	—	—
Nondepository institutions .....	5	—	—	—	5	—	—	—
Security and commodity brokers .....	—	—	6	—	5	9	5	6
Security brokers and dealers .....	5	8	—	7	7	—	—	7
Insurance carriers .....	—	6	—	—	—	—	—	6
Life insurance .....	14	13	15	8	11	10	8	10
Medical service and health insurance .....	8	—	5	—	5	—	—	5
Fire, marine, and casualty insurance .....	—	—	—	—	—	5	6	—
Insurance agents, brokers, and service .....	17	15	12	11	20	10	12	14
Real estate .....	61	66	51	66	57	48	42	48
Real estate operators and lessors .....	29	35	31	36	29	21	23	28
Nonresidential building operators .....	5	5	—	8	8	6	5	—
Apartment building operators .....	13	23	21	22	16	11	12	19
Mobile home site operators .....	—	—	6	—	—	—	—	—
Real estate agents and managers .....	27	27	16	23	24	23	16	13
Subdividers and developers .....	5	—	—	5	—	—	—	6
Holdings and other investment offices .....	—	5	—	—	—	—	—	7
Miscellaneous investing .....	—	—	—	—	—	—	—	6
<b>Services</b> .....								
Hotels and other lodging places .....	757	774	853	749	776	727	763	732
Hotels and motels .....	52	33	44	33	32	44	36	37
Camps and recreational vehicle parks .....	40	25	37	27	31	41	30	29
—	9	7	7	5	—	—	—	7

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Personal services .....	47	31	32	39	39	35	50	42
Laundry, cleaning, and garment services .....	26	13	13	19	18	12	23	23
Beauty shops .....	7	9	—	7	7	8	—	—
Barber shops .....	—	—	—	5	6	6	5	6
Funeral service and crematories .....	—	—	—	—	6	—	6	5
Miscellaneous personal services .....	5	5	6	—	—	7	11	5
Business services .....	210	192	255	212	168	183	196	161
Advertising .....	6	13	18	16	7	8	9	9
Mailing, reproduction, stenographic .....	8	—	9	12	5	14	5	—
Services to buildings .....	34	32	33	30	21	27	30	30
Disinfecting and pest control services .....	—	5	6	—	—	5	5	—
Building maintenance services, n.e.c. ....	23	23	27	27	17	22	25	26
Miscellaneous equipment rental and leasing .....	15	8	14	22	15	20	19	13
Heavy construction equipment rental .....	6	—	—	12	5	11	11	—
Personnel supply services .....	36	45	35	34	24	19	35	23
Employment agencies .....	7	5	7	—	—	—	—	5
Help supply services .....	27	39	28	30	19	17	32	17
Computer and data processing services .....	14	7	16	6	9	9	11	7
Miscellaneous business services .....	94	84	130	92	87	83	87	72
Detective and armored car services .....	42	51	73	49	47	36	36	39
Security systems services .....	—	—	5	7	—	7	—	—
Automotive repair, services, and parking .....	80	120	91	117	104	110	133	132
Automotive rentals, no drivers .....	11	8	14	6	9	—	16	11
Automobile parking .....	—	—	—	6	—	—	—	6
Automotive repair shops .....	53	85	62	80	68	69	80	82
Top, body, and upholstery repair shops and paint shops .....	—	12	23	19	19	17	12	20
Tire retreading and repair shops .....	5	—	—	5	—	—	6	8
Automotive transmission repair shops .....	—	5	—	—	—	—	—	—
General automotive repair shops .....	24	42	27	44	39	35	48	39
Automotive repair shops, n.e.c. ....	—	6	—	—	—	—	8	6
Automotive services, except repair .....	15	25	15	25	24	32	34	32
Automotive services, n.e.c. ....	11	18	10	19	21	25	28	22
Miscellaneous repair services .....	46	49	38	51	52	37	41	53
Electrical repair shops .....	10	11	9	15	13	5	13	14
Miscellaneous repair shops .....	33	35	29	34	36	31	26	36
Motion pictures .....	16	23	13	5	20	14	7	6
Motion picture production and services .....	10	11	—	—	5	6	—	—
Video tape rental .....	5	10	7	—	9	6	—	—
Amusement and recreation services .....	64	78	82	61	71	80	76	83
Producers, orchestras, entertainers .....	8	—	8	8	—	6	—	7
Commercial sports .....	7	6	18	13	24	15	9	19
Racing, including track operations .....	5	—	17	9	21	13	9	16
Miscellaneous amusement, recreation services .....	47	71	55	38	43	59	61	55
Public golf courses .....	—	—	—	—	6	—	7	—
Coin-operated amusement devices .....	—	5	6	—	—	—	—	—
Membership sports and recreation clubs .....	—	18	7	7	—	5	15	10
Health services .....	73	69	87	62	95	70	65	71
Offices and clinics of medical doctors .....	15	6	11	9	9	6	13	7
Offices and clinics of dentists .....	5	7	6	—	—	—	—	—
Nursing and personal care facilities .....	9	10	11	9	15	6	5	8
Hospitals .....	20	27	28	20	34	21	24	30
General medical and surgical hospitals .....	17	15	22	15	25	18	22	25
Medical and dental laboratories .....	7	—	—	—	—	6	—	—
Home health care services .....	11	8	20	15	19	23	16	13
Health and allied services, n.e.c. ....	—	5	—	—	6	—	—	—
Legal services .....	12	14	11	13	15	16	18	16
Educational services .....	35	28	30	27	27	30	33	28
Elementary and secondary schools .....	6	7	5	—	5	—	7	—
Colleges and universities .....	12	7	12	10	5	9	—	9
Schools and educational services, n.e.c. ....	13	10	10	17	16	15	20	15

See footnotes at end of table.

## Occupational Injuries and Illnesses and Work-related Fatalities

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
Social services .....	15	29	33	30	39	21	27	27
Individual and family services .....	—	7	8	7	14	5	6	7
Job training and related services .....	—	9	10	5	5	—	—	—
Child day care services .....	—	—	—	7	—	—	6	6
Residential care .....	6	10	6	6	17	9	7	9
Social services, n.e.c. .....	—	—	5	5	—	5	5	—
Membership organizations .....	37	41	43	28	43	31	31	24
Business associations .....	—	7	—	—	—	—	—	—
Civic and social associations .....	—	6	8	8	7	—	7	5
Religious organizations .....	25	26	27	18	29	25	20	18
Engineering and management services .....	53	45	71	57	51	42	37	39
Engineering and architectural services .....	24	21	35	29	25	21	16	16
Engineering services .....	19	14	22	24	15	7	11	10
Architectural services .....	—	—	—	—	—	5	—	—
Surveying services .....	—	—	10	—	7	9	—	—
Accounting, auditing, and bookkeeping .....	5	6	9	—	7	5	6	5
Research and testing services .....	14	10	11	14	12	7	7	10
Management and public relations .....	10	8	16	12	7	9	8	7
Private households .....	14	14	13	9	15	7	11	—
Services, n.e.c. .....	—	5	7	—	—	6	—	8
<b>Government<sup>6</sup></b> .....	720	688	673	780	605	622	598	562
<b>Federal government (including resident armed forces)</b> .....	256	189	211	301	184	162	162	147
<b>Agriculture, forestry and fishing</b> .....	—	—	5	—	—	—	—	—
<b>Transportation and public utilities</b> .....	20	17	11	18	15	14	25	17
U.S. Postal Service .....	14	14	11	16	14	14	17	17
Electric, gas, and sanitary services .....	—	—	—	—	—	—	6	—
Electric services .....	—	—	—	—	—	—	5	—
<b>Services</b> .....	8	5	8	5	—	—	—	5
<b>Public administration</b> .....	222	162	183	270	159	143	133	117
Executive, legislative, and general government .....	—	6	—	97	—	—	—	—
Justice, public order, and safety .....	—	7	12	—	9	—	7	—
Public order and safety .....	—	7	11	—	9	—	6	—
Police protection .....	—	7	7	—	5	—	5	—
Administration of human resources .....	—	—	—	—	—	—	—	7
Environmental quality and housing .....	8	—	27	8	7	20	14	5
Administration of economic programs .....	12	12	21	—	—	6	7	—
National security and international affairs .....	195	130	118	157	140	111	100	97
National security .....	194	130	117	156	139	109	97	96
<b>State government</b> .....	115	147	114	127	130	125	136	108
<b>Construction</b> .....	14	17	21	18	19	14	16	14
Heavy construction, except building .....	14	17	21	18	18	14	16	14
Highway and street construction .....	14	17	21	18	18	14	16	14
<b>Transportation and public utilities</b> .....	6	7	—	5	6	6	—	6
<b>Services</b> .....	24	31	22	25	29	26	27	22
Health services .....	6	7	—	—	—	—	5	—
Educational services .....	11	18	17	18	21	19	15	14
Elementary and secondary schools .....	—	6	—	—	—	—	—	—
Colleges and universities .....	7	11	14	15	18	16	12	10
Social services .....	—	—	—	—	—	—	—	5

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by selected worker and case characteristics, 1992-99 — Continued

Characteristics	Year							
	1992	1993	1994	1995	1996	1997	1998	1999
<b>Industry – continued</b>								
<b>Public administration</b>	70	91	65	78	70	77	90	66
Executive, legislative, and general government	—	11	—	—	—	—	10	—
Justice, public order, and safety	27	37	31	43	28	43	34	36
Public order and safety	27	36	30	43	28	42	34	35
Police protection	18	23	14	28	17	26	20	20
Correctional institutions	6	12	11	8	7	11	12	12
Finance, taxation, and monetary policy	—	—	—	—	—	—	8	—
Administration of human resources	—	10	—	7	12	5	9	6
Environmental quality and housing	11	10	5	9	5	—	13	12
Administration of economic programs	25	21	22	16	20	21	15	8
<b>Local government</b>	341	345	338	341	289	331	296	301
<b>Construction</b>	30	21	27	24	29	15	17	20
Heavy construction, except building	30	19	25	23	28	14	17	18
Highway and street construction	24	17	20	19	20	13	16	14
Heavy construction, except highway	6	—	5	—	8	—	—	—
<b>Transportation and public utilities</b>	34	47	41	41	22	35	36	33
Local and interurban passenger transportation	9	15	8	11	—	7	6	9
Local and suburban transportation	7	15	7	10	—	6	6	7
Electric, gas, and sanitary services	16	29	32	27	18	26	28	21
Electric services	—	8	—	—	—	—	—	6
Water supply	—	—	8	6	—	9	7	—
Sanitary services	11	12	17	11	9	8	13	10
Sewerage systems	5	5	7	—	—	5	—	5
Refuse systems	6	7	8	8	7	—	11	5
<b>Services</b>	53	62	34	44	45	54	42	48
Amusement and recreation services	7	7	5	—	—	—	—	—
Miscellaneous amusement, recreation services	7	7	5	—	—	—	—	—
Health services	—	7	—	8	9	6	—	9
Hospitals	—	—	—	7	—	—	—	6
General medical and surgical hospitals	—	—	—	7	—	—	—	6
Educational services	32	43	20	28	28	38	32	34
Elementary and secondary schools	28	35	19	26	26	34	27	32
Social services	6	—	5	5	—	6	—	—
Individual and family services	6	—	—	—	—	—	—	—
<b>Public administration</b>	216	211	231	229	185	221	199	196
Executive, legislative, and general government	61	60	42	40	41	32	34	31
Executive offices	13	13	9	—	—	—	—	—
Legislative bodies	7	—	—	—	6	—	6	—
Executive and legislative combined	31	30	21	15	28	10	10	7
Justice, public order, and safety	131	130	161	167	121	166	152	144
Public order and safety	129	130	160	165	119	166	150	144
Police protection	102	88	117	110	76	114	102	91
Correctional institutions	—	—	—	7	—	—	—	—
Fire protection	23	35	38	41	39	50	42	50
Administration of human resources	—	—	7	—	—	—	—	—
Environmental quality and housing	9	12	16	12	12	9	5	13
Administration of economic programs	8	5	5	8	10	11	7	—

<sup>1</sup> May include volunteers and other workers receiving compensation.

<sup>2</sup> Includes paid and unpaid family workers, and may include owners of incorporated businesses, or members of partnerships.

<sup>3</sup> Persons identified as Hispanic may be of any race.

<sup>4</sup> Includes fatalities that occurred in structures that do not meet the definition of permit required confined spaces as defined by Occupational Safety and Health Administration regulations.

<sup>5</sup> Includes the category "Bodily reaction and exertion."

<sup>6</sup> Includes fatalities to workers employed by governmental organizations regardless of industry.

NOTE: Totals for major categories may include subcategories not shown separately.

Dashes indicate no data reported or data that do not meet publication criteria.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries